

Title (en)  
Diamond synthesis

Title (de)  
Diamantsynthese

Title (fr)  
Synthèse de diamants

Publication  
**EP 0523923 B1 19960320 (EN)**

Application  
**EP 92306338 A 19920710**

Priority  
ZA 915453 A 19910712

Abstract (en)  
[origin: EP0523923A1] A reaction vessel for use in producing large diamond crystals of good quality and yield includes a reaction volume and a reaction mass located in the volume. The reaction mass comprises a plurality of seed particles (24) located in or on a surface (26) in the reaction volume and a carbon source (22) separated from the seed particles (24) by a mass of metallic catalyst/solvent (20) for diamond synthesis. The mass (20) comprises alternating layers (30, 32) of carbon-rich and carbon-lean metallic catalyst/solvent which lie parallel or substantially parallel to the surface (26). There is also provided a mass (18) of alternating layers (30, 32) of carbon-rich and carbon-lean metallic catalyst/solvent. <IMAGE>

IPC 1-7  
**C01B 31/06**; B01J 3/06

IPC 8 full level  
**B01J 3/06** (2006.01); **C30B 29/04** (2006.01)

CPC (source: EP KR US)  
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